STANKIEWICZ, R.

"Allergiv Diseases in Children and Their Treatment." (First City Hospital in Warsew.)

SO: Ped. Polska, Vol. 28, (1953), No. 10, pp. 1040-1044.

STANKIEVICE, Remigiusz (Warszawa, ul. Kielecka 27)

Observations on pathogenesis and prognosis of epidemic diarrheas in children. Poleki tygod. lek. 9 no.21:646-650 24 May 54.

1. Z Miejskiego Sspitala Dla Usieci Mr 1 w Warszawie, dyrektor prof. dr med. Stankiewicz.

(INFANT MUTRITION DISCRIBERS.)

### STANKIEWICZ, Remigiusz

Diagnostic defficulties in typhoid fever and paratyphoid fever in infants. Pediat.polska 30 no.1:29-37 Jan 55.

1. Z Miejskiego Szpitala dla Dzieci Nr 1 w Warszawie Dyrektor; prof. dr med. R.Stankiewicz. Adres: Warszawa, Kopernika 43.

(TYPHOID FEVER, in infant and child, differ. diag. from paratyphoid fever)

(PARATYPHOID FEVERS, in infant and child, differ diag. from paratyphoid fever)

# Stankiewicz. Remigiusz Stephylococcal speticemia with pulmonary complications in infants. Polski tygod. lek. 11 no.12:521-526 19 Mar 56. 1. Z Miejskiego Szpitala dla Dzieci Nr 1, w Warszawie; ul. Kopernika 43; dyrektor: prof. dr. med. R. Stankiewic, Werszawa, Kielecka 27-1. (SKPTICEWIA AND BACTERMIA, in infant and child, staph. septicemia with pulm. compl. in inf. (Pol)) (MICHOGOCCAL INFECTIONS, in infant and child, septicemia with pulm. compl. in inf. (Pol)) (LUNCS, diseases, caused by staph. septicemia in inf. (Pol))

STANKIEWICZ, S.

"The Froblem of Impregnating Wood for Building Purposes." p.209 (PRZEGLAD BUDOWLANY Vol. 25, no. 6, June 1953 Warszawa, Poland)

SO: Monthly List of East European Accessions, LC, Vol. 3, no. 5, May 1954/Uncl.

STANKIEWICZ, S.

Aids to strengthen braking and steering mechanisms. Pt. 1. (To be contd.) p. 165. (TECHNIKA MOTORYZACYJNA, Vol. 4, No. 6, June 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), IC, Vol. 3, No. 12, Dec. 1954, Uncl.

STANKIEWICZ, S.

Aids to strengthen braking and steering mechanisms. Pt. 2. (Conclusion) p. 219. (TECHNIKA MOTORYZACYJNA, Vol. 4, No. 7, July 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), IC, Vol. 3, No. 12, Dec. 1954, Uncl.

STANKIEWICZ, Stefan

POLAND

KARCZEWSKI, Leszek; ANDRUSZKIEWICZ, Romuald; STANKIEWICZ, Stefan

Industrial Instytut of Electronics (Przemyslowy Instytut Elektroniki)

Warsaw, Przeglad elektroniki, No 8, August 63, pp 462-63.

"Preparation of Extreme-Purity Sb2S3"

3

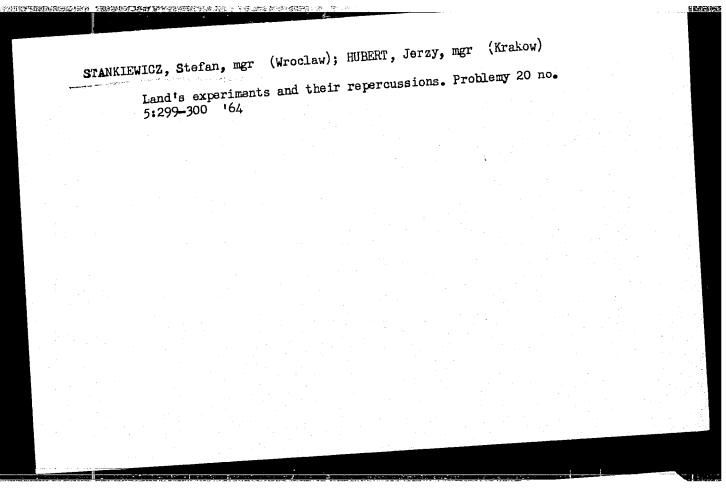
Stefan STANKIEWICZ,

POLAND

KARCZEWSKI, Leszek; STANKIEWICZ, Stefan

Industrial Institute of Electronics (Przemyslowy Instytut Elektroniki)

Warsaw, Przeglad elektroniki, No 8, August 63, pp 476-77. "Preparation of PbS Thin Layers and Powders by Chemical Methods".



ON THE PARTY	Poland RZKhim., No. 51960, No.		19689	
UTHOR MST. MTLE MRIG. PUB. ABSTRACT	Not given The Reconstruction of the Gaz Cukrown, 61, No 4, 1 The aim of the reconstruction capacity and the replacement. A list of plans given and the organizat lems encountered are de	14-118 (1959)  oction is the exement of obsoleted properties of the work	pansion of e equip-	
· ( -				

KOTARBA, Cecylia; MARKIEWICZ, Zofia; MARKIEWICZ, Kazimierz;
STANKIEWICZ, Wladyslaw (Warszawa)

Application of piperazine in Normine dogs and swine. Wiadomosci
parazyt., Warsz. 2 no.5 Suppl:145-147.1956.

1. Klinika Chorob Wewnetrznych Wydz. Wet. SGGW.

(PIPERAZINES, therapeutic use,
worming dogs & swine (Pol))
(SWINE, diseases,
helminth infect., piperazine ther. (Pol))
(DOGS, diseases,
same)

PCLAND/Diseases of Farm Animals. Diseases Caused by Viruses and Rickettsiae.

Abs Jour: Ref Zhur-Biol., No 9, 1958, 40655.

Author : Markiewicz, K., Stankiewicz, W. : Therapy Methods in Dog Pest.

Title

Orig Pub: Woiskowy przegl. weteryn., 1956, 27, No 3, 20-29.

Abstract: In the early stages of dog pest the most effective therapeutic methods are hypodermic, intravenous and intraperitoneal injections with specific antiserum. If it is administered during the first few days it can check the dises ... The effect of the serum is supported by sulfamides, penicillin or streptomycin, which, although they have no effect on the virus itself, successfully prevent bacterial complications. However,

: 1/4 Card

: 2/4 Card

APPROVED FOR RELEASE: 08/25/2000\_

POLAND/Diseases of Farm Animals. Diseases Caused by Viruses and Rickettsiae.

R

Abs Jour: Ref Zhur-Biol., No 9, 1958, 40655.

drained cff. Sometimes, the purcture itself and the draining of six to ten ml of spinal fluid brought temporary and even permanent relief in some cases. An experimental intraspinal injection of three to An experimental intraspinal injection of three to a caused a very violent reaction in all of the degs, with intensification of the nervous syndrome. Experimental spinal injections of penicillin and sulfamides resulted in the death of the animals. Good therapeutic results were attained when two dogs with the nervous syndrome of the disease were treated by the Ulrich method which uses simultaneous hypotermic injections of luminal and snake poison. Both dogs recovered. Ulrich also recommends hypodermic

card : 3/4

Stankiewic Ziw

PCLAND/Diseases of Farm Animals. Noncontagious Diseases.

Abs Jour: Ref Zhur-Biol., No 12, 1958, 54923.

Author : Markiewicz, Z., Stankiewicz, W.

Inst

: Cases of Hemorrhagic Thrombocytopenia in Dogs. Title

Crig Pub: Med. weteryn., 1957, 13, No 2, 102-105.

Abstract: No abstract.

: 1/1 Card

STANKIEWICZ, Wladysław; MARKIEWICZ, Zofia; PIETRASZEK, Andrzej

Intestinal helminthiases in clinically normal and sick dogs in Warsaw.
Wiadomosci parazyt., Warsz. 4 no.5-6:577-578; Engl. transl. 578-579 1958.

1. Z Kliniki Chor. Wewn. Wydz. Wet. SGGW w Warszawie.

(DOGS, dis.:
helminth infect. (Pol))
(HELMINTH INFECTIONS. epidemiol.
in dogs (Pol))

MARKIEWICZ, Kazimierz; STANKIEWICZ, Wladysław

Attempted fuadin therapy of demodicidosis in dogs. Wiadomosci parazyt.,
Warsz. 4 no.5-6:607-608; Engl. transl. 608-609 1958.

1. Z Kliniki Chor. Wewn. Wydz. Wet. SOGW w Warszawie.

(ACARIASIS, therapy,
demodicidosis, fuadin in dogs (Pol))

(ANTIMONY, there use,
fuadin in demodicidosis in dogs (Pol))

(DOGS, dis.
demodicidosis, fuadin ther. (Pol))

STANKIEWICZ, W.; MARKIEWICZOWA, Z.; MARKIEWICZ, K.(Warszawa)

Research on the application of autohemolysates in cases of allergic skin diseases of dogs. Rocz nauk roln wet 70 no.1/4:84-86 '60. (EEAI 10:9)

(Dogs) (Skin) (Hemolysis and hemolysins)

MARKIEWICZ, K.; MARKIEWICZOWA, Z.; STANKIEWICZ, W.(Warszawa)

Research on the applicability of heterospecific blood transfusions for animals. Rocz nauk roln wet 70 no.1/4:86-88 160. (FEAI 10:9)

(Animals) (Blood)

### CIA-RDP86-00513R001652910004-3 "APPROVED FOR RELEASE: 08/25/2000

STANKTEWICZ. Wladvslaw SURTAME (in caps); Given Names

Country: Poland

Academic Degrees: Docent dr

Director of Department of Diseases of Small Animals, Affiliation: Veterinary Division, Central School of Agriculture (SGG: -

Szkola Glowna Gospodarki Wiejskiej), Warsaw

Source: Warsaw, Medycyna Weterynaryjna, No 4, April 1961, pp 241-242.

Data: "A Convenient Method of Collecting Blood from Small Animals."

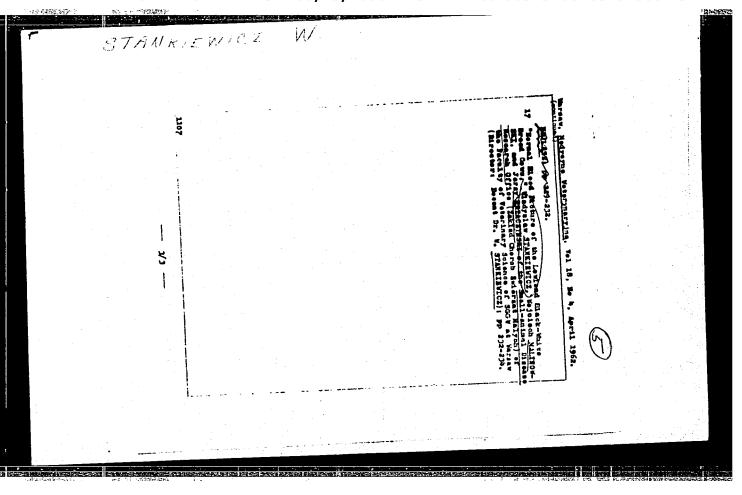
Co-author:

KONARSKA, Aleksandra

CIA-RDP86-00513R001652910004-3" APPROVED FOR RELEASE: 08/25/2000

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STANKIEWICZ JRUANE, Biven Names	W.			``
STANKIEWICE	1			
JRHAME, Given Names			)	
Country: Poland		//8/		
Academic Degrees:				
Affiliation: Source: Warsaw, Medvc		vol XVII, N	o 7, July 1961,	pp 391-
Source: Warsaw, Medvc -395. Data: "An Attempt to	yna Weterynary,	100, 101, 101, 1	and for Horses	in the
-395.	Determine a Ha	ematological in	dex 101 money	
Data: "An Attempt to	Determine a Ha lats of the War	saw Wojewodztwo		
Right-pank .o.	<del>7</del> .			C-4011
Authors:	Document dr.	Director of the	Department of	ary Divisio
STANKIEWICZ, W	Docent dr., ses (Zaklad Cho serynarii), Cent	rob Zwierzat Ma	Agriculture (SG	GWSzkola
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CZAPLICKA-GRU	ZEVISKA, H., La	ratorium Stajen	Wytworn1 Surow	Lek. wet.
of Sera and	odarki Wiejskie, SZEWSKA, H., Lai Vaccines (Labo: , Zpresumed/ Wa	rsaw; Director:	A. TADOMOTTA	
Bzczeplonek	, Threstmozy			
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"APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652910004-3



STANKIEWICZ, Zofia; MIJAL, Kazimiera; MAJEWNKA, Barbara

Evaluation of nutrition on one of the state farms in

Lublin Voivodeship. Roczn panstw zakl hig 14 no.51453-460
\*63.

1. Laboratory of Nutrition Hygiene, Institute of Occuppational
Madicine and Rural Hygiene, Lublin.

STANKIEWICZ-MICHNIEWICZ. Eugenia; JAKUBOWSKA, Krystyna

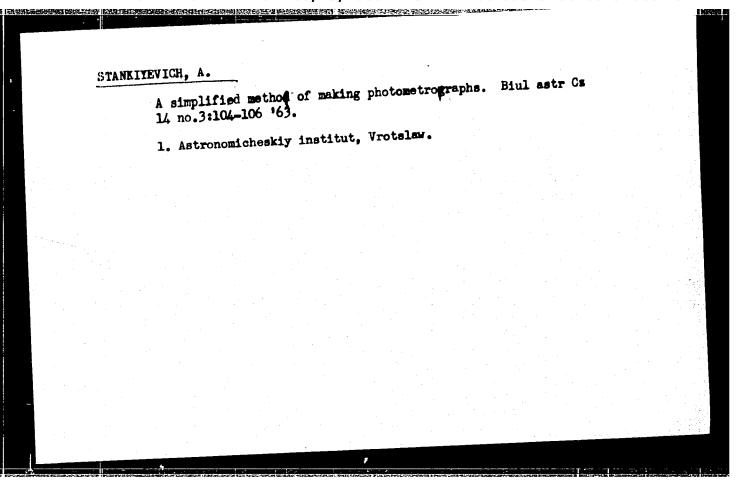
Dysostosis enchondralis in a 12-year-old child. Reumatologia (Warsz.) 2 no.4:371-375 164

1. Z. Kliniki Pediatry nej Studium Doskonalenia Lekarzy Akademii Medycznej i Instytutu Reumatologicznego w Warszawie (Kierownik: prof. dr. med. E. Wilkoszewski) i z Zakladu Radiologii Instytutu Reumatologicznego w Warszawie (Kierownik: doc. dr. med. J. Zabokrzycki; Dyrektor Instytutu: dr. med. W. Bruhl).

STANKIEMICZ-MUSIEROWICZ, Zofia; JAWORSKA, Anna; LIMBURKSA, Krystyna

A case of dermoid cyst of the tongue diagnosed by means of fistulography. Czas. stomat. 18 no.3:245-249 Mr'65.

1. Z Kliniki Chirurgii Stomatologicznej Slaskiej Akademii Medycznej w Zabrzu, (Kierownik: prof. dr. M. Jankowski).



EWT(m)/EWP(t)/EWP(b) IJP(c) JD/OS 1 32206-65 s/0000/64/000/001/0027/0027 ACCESSION NR: AT5005416 AUTHOR: Manovets, L. M.; Stanko, A. A. TITLE: Possible use of indium arsenide Hall-effect sensors as power conversion meters SOURCE: Nauchnaya konferentsiya molodykh uchenykh Moldavii, 3d. Trudy, no. 1: Yestestvenno-tekhnicheskiye nauki (Natural and technical sciences). Kishinev, Gosizdat Kartya Moldovenyaske, 1964, 27 TOPIC TAGS: indium arsenide, power mater, Hall effect, power conversion, semiconductor sensor, indium phosphide ABSTRACT: It is well known that Hall-effect sensors can be used for measuring the power of electrical currents. The materials of which such sensors are made must show a large Hall-effect coefficient and a low internal resistance. In addition, these parameters should be independent of temperature and magnetic field within the entire measuring range. Experimental analyses of the electrical properties of indium arsenide and its alloys with indium phosphide showed that they are fully compatible with the above-mentioned requirements. The errors did not exceed 1% in the entire working temperature region and the sensors proved stable over extend-

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SOURCE: Ref. zh. Elektronika i yey	e primeneniye. Svodnyy tom, Abs. 11B171 💪	
AUTHOR: Manovets, L. M.; Stanko,		
TITLE: Possibility of using the Hafor measurement purposes	ill indium-arsenide generators for power conversio	
CITED SOURCE: Tr. 3-y conferentsi: n. Vyp  . Kishinev, Kartya Moldove	molodykh uchenykh Moldavii. Yestestvtekhn. enyaske, 1964, 27	
TOPIC TAGS: Hall generator, measu	ring Hall generator	
	rs of the Hall generators made from indium um phosphide which are used for measuring	
	e stability of characteristic during a long-time	

L 43093-66 ENT(m)/T/EWP(t)/ETI IJP(c) JD/WB SOURCE CODE: UR/0137/66/000/011/1057/1057 (M,A) ACC NR: AR6014384 AUTHORS: Petrov, Yu. N.; Mamontov, Ye. A.; Parsadanyan, A. S.; Vyrlan, A. I.; Stanko, A. A.; Kalmutskiy, V. S. 35 TITLE: Influence of thermal treatment on the electrode potential of steel 13 SOURCE: Ref. zh. Metallurgiya, Abs. 111396 REF SOURCE: Sb. Materialy dokl. 1-y Nauchno-tekhn. konferentsii Kishinevsk. politekhn. in-ta k Kishinev, 1965, 86-87 TOPIC TAGS: steel, carbon steel, electrode potential / St 45 steel ABSTRACT: On the basis of comparison of the magnitude of stationary potentials of quenched and nonquenched specimens in a working electrolyte of iron-plating solution and 30% sulfuric acid solution, it is concluded that potentials of the quenched specimens are more positive than those of the nonquenched specimens.

The behavior of specimens (St 45 quenched) during anodic treatment in 30% sulfuric acid solution shows that the more intensive passivation occurs for quenched specimens. The change of the stationary potentials of quenched carbon steel towards electropositive values is explained by the presence of residual UDC: 669.14.018.26:621.78 Card 1/2

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# CIA-RDP86-00513R001652910004-3

EWT(m)/EWP(j) L 34101-66

SOURCE CODE: UR/0079/65/035/011/2003/2006 MA/DWL/WW/RM

ACC NR: AP6008709

AUTHOR: Stanko, V. I.; Bobrov, A. V.

ORG: none

TITLE: Nitration of phenylbarene

SOURCE: Zhurnal obshchey khimii, v. 35, no. 11, 1965, 2003-2006

TOPIC TAGS: organoboron compound, nitration

ABSTRACT: The nitration of phenylbarene with 100% nitric acid and a nitrating mixture of 57% HNO3 and conc. H<sub>2</sub>SO<sub>4</sub> was studied. Analysis of the reaction products showed that independently of the nitrating agent, the main product is p-nitrophenylbarene together with a mononitro derivative of phenylbarene, apparently, phenylnitrobarene.

UDC: 546.271:958.1

Card 1/2

CIA-RDP86-00513R001652910004-3" APPROVED FOR RELEASE: 08/25/2000

L 34101-66

ACC NR: AP6008709

The structure of p-nitrophenylbarene was demonstrated by the method of combined oxidation of the nitration product and IR and Raman spectra. The amount of the second product was too small to permit identification of its structure. IR spectra of the mixture of the nitro compounds, p-nitrophenylbarene and phenylbarene, and also Raman spectra of phenylbarene and of the mixture of its nitro derivatives were recorded, and the characteristic lines obtained are described. Orig. art. has: 3 figures.

SUB CODE: 07 / SUBM DATE: 23Dec64 / ORIG REF: 006 / OTH REF: 002

Card 2/2 mT

STAN'KO, D.G., kand.tekhn.nauk, dotsent

Evaluating losses in conjugate tooth profiles. Trudy Frunz. politekh.inst. no. 6:117-132 '62.

Determining mechanical efficiency in transmissions. Ibid.:133-139 (MIRA 17:9)

RUMYANTSEV, B.P., dots., otv. red.; GULIDA, E.N., red.; KARTASHOV, I.N., prof., red.; KIRILLOV, Yu.G., dots., red.; MOGIL'NYY, N.I., dots., red.; SEVRYUK, V.N., dots., red.; STAN'KO, D.G., dots., red.; TSOY, N.G., dots., red.; KHLUS, A.A., dots., red.; POLUBICHKO, B.V., red.

[Problems of locomotive manufacture, technology of machine manufacture and founding] Voprosy lokomotivostroeniia, tekhnologii mashinostroeniia i liteinogo proizvodstva. L'vov, Izd-vo L'vovskogo univ., 1964. 126 p. (MIRA 17:10)

1. Lugansk. Mashinostroitel'nyy institut.

Z/011/61/018/001/008/014 E112/E453

Bogatyrev, P.M., Stan'ke, N.G. and Golda, N.M. AUTHORS :

TITLE:

Study of side-reactions during the synthesis of alkyd

resins

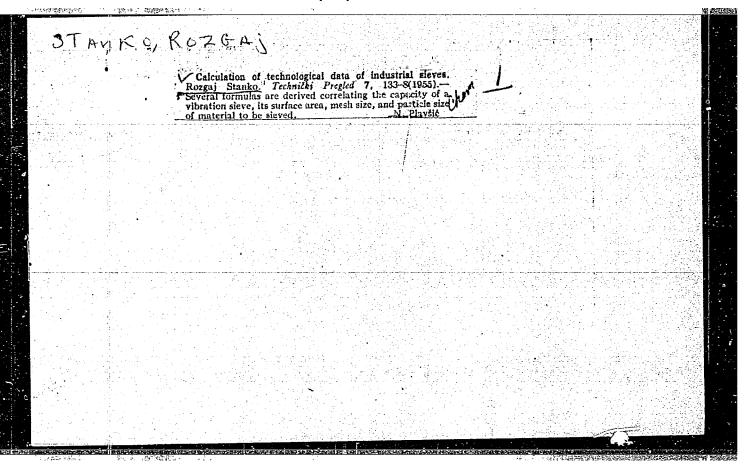
PERIODICAL: Chemie a chemicka technologie, 1961, Vol.18, No.1, p.32,

(Lakokras, Materialy, 1960, abstract CH 61-441

No.1, pp.6-13)

Most important side-reactions are; polymerization of double-bonds of the fatty acids, formation of polyglycerides and their esters, and pyrolysis of glycerole esters. which is a glyptal resin modified by acids of sunflower-seed oil, was taken as model substance. It was established that if oils are used for the synthesis, polyglyceroles and polyglycerides are formed not only during alcoholysis but also on esterification. The pyrolysis of the glycerole esters is affected by temperature, duration of esterification and reaction medium, and leads to losses of phthalic anhydride. 4 diagrams, 6 tables, 20 literature references.

[Abstractor's note: Complete translation.] Card 1/1



YUGOSLAVIA / Chemical Technology, Chemical Products and Their Application, Part 2. - Ceramics, Glass, Binders, Concretes. - General Topics.

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 61650.

Author : Stanko Rozgaj.

: Not given. : Upon the Purification of Baryte Raw Materials Inst

Title in Yugoslavia.

Orig Pub: Tehn. pregl., 1957, 9, No 4, 142 - 147.

Abstract: No abstract.

Card 1/1

26

CIA-RDP86-00513R001652910004-3" APPROVED FOR RELEASE: 08/25/2000

Adaptability of plants and some invertebrates to low temperatures.

Vest. AN Kasakh.SSR 11 no.3:85-88 Mr '55. (MIRA 8:6)

1. Predstavleno chlenom-korrespondentom AN SSSR G.A.Tikhovym.

(Adaptation (Biology)) (Acclimatisation (Plants))

Stanko, S.A.

USSR/Biology - Adaptability

Card 1/1

Pub. 123 - 9/13

Authors

Stanko, S. A.

Title

Adap ability of plants and invertebrates to low temperatures

Periodical

Vest. AN Kaz. SSR 120/3, 85-89, Mar 1955

Aostract

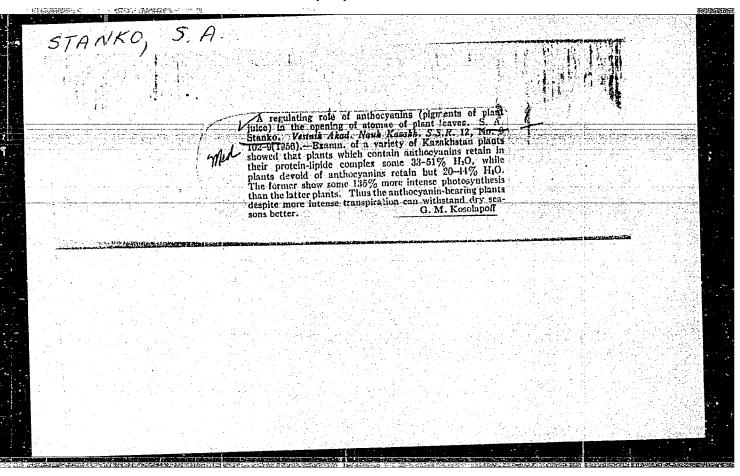
Results of a study which was conducted to determine the adaptability of plants to low temperatures are presented. Various plants originating from high altitudes in the Carpatian mountains were studied. Daily variations in temperature, in the presence of snow, from + 4.7°C to -15.3°C did not apprecially affect the plants. (Transl. note: the text does not mention the invertebrates.) Five USSR references (1949-

1953). Table.

Institution :

Member-Correspondent of the Acad. of Sc., USSR, G.A. Tikhov

Presented by :



STANKE, SA.

I-l

USSR/Plant Physiology - Photosynthesis.

Abs Jour

: Ref Zhur - Biol., No 5, 1958, 19910

Author

Inst

: Dadykin, V.P., Stanko, S.A.
: - YAKUT AFFH Sector Astrobotony Karakh (iffile External Conditions and the Assimilation of Light by Plants.

Title

Orig Pub

: Izv. vost. fil. AN SSSR, 1957, No 1, 109-120

Abstract

: By the method of relative spectrophotometry using a field quartz spectrograph of Tikhov construction, the reflection and filtration spectra of plants were studied. In vegetation experiments on Yakutyanka wheat, tomatoes, corn, cucumbers and onions during the period of ontogenesis at the same air temperature (20-25) an increased in the soil temperature from -4 to +20 degrees induced an increase in the reflection and filtration of light, and a decrease in its absorption.

Card 1/2

I

USSR/Plant Physiology. Photosynthesis

: Ref Zhur-Biol., No 13, 1953, 58191 Abs Jour

Author

Section of Astrobotany, Academy of Sciences

Inst

Title

:: Study of the Pigments of Antocyanins in Mono-

chromatic Rays

Orig Pub

: Tr. Sektoraatrobotan., AN Kaz SSR, 1957, 5,

149-161

Abstract

: The absorption and penetration of antocyanins and chlorophyll by the leaves of Gentiana asclepiadea, Homogene alpina Coss, Soldanella hungarica Simk., Rumex alpinus L., and Hieracium carpaticum Bess., growing in Transcarpathian mountains (2054 meters above sea level) and in the valley (110 meters above sea level) were determined by means of spectrophotometry of aqueous

card 1/3

9

# APPROVED FOR RELEASE: 08/25/2909nesiGIA-RDP86-00513R001652910004-3" USSR/Plant Physiology. Photographics GIA-RDP86-00513R001652910004-3"

Abs Jour : Ref Zhur-Biol., No 13, 1958, 58191

Abstract

: extracts or undestroyed leaves. The valley plants contained 13 to 19% more chlorophyll than the mountain plants in which the insufficiency of chlorphyll was compensated by antocyanins. The maximums of permeability of the plants under investigation were in the same area, but depending on the concentration of the pigment, differed by the depth of the profile. Antocyanins shaded the main strip of chlorophyll absorption in the area of 660 to 690 mu, for they absored the blue-violet (:=410-470 mu), green-yellow(525-540), orange (580-600), and also the short infra-red rays. The main maximum of absorption in aquesous solutions was at 1 = 510 - 525 mu, and the compensatory at 250 - 285, 200 - 210 (ultra-violet pensatory at 250 - 285, 200 - 210 (ultra-violet pensatory at 250 - 285) area), 625-645 (orange), and 710-720, 840-840 area). The data which were sic/mu (infra-red area).

Abs Jour : Ref Zhur-Biol., No 13, 1958, 58192

: Stanko S. A. Author

HSSK/ LTSUL LUARIOTORA . THOUSEN

: Section of Astrobotany, Academy of Sciences Inst

Kazakh SSR

: Characteristic of the passing of Sun Energy by Title

Plant Leaves, Depending on the Coloration of

their Flowers

: Tr. Sektora astrobotan., AN Kaz SSR, 1957, 5, Orig Pub

162-173

: The passage of sun energy in short waves of 365 Abstract

to 1200my by the fifth from the top green leaves of musk mallow (Malva moshata L.), Indian canna (Canna indica L.), and dahlia (Dahlia variabilis Desf.) with flowers of different colors was determined with the help of the Yu. D. Yani-

Card 1/2

STANKO, S.A.

AUTHOR TITLE

PERIODICAL

ABSTRACT

20-1-52/54 DADYKIN, V.P., STANKO, S.A., GORBUNOVA, G.S., and IGUMNOVA, Z.S. Light Assimilation by Plants at Yakutsk and Tiksi

(Ob usvoyenii sveta rasteniyami v Yakutske i Tiksi. Russian) Doklady Akademii Nauk SSSR, 1957, Vol 115, Nr 1, pp 190-192 (U.S.S.R.)

The idea of "optic assimilation" of plants of K.A. Timiryazev which was proved and developed especially by austrobotany, served as a starting point for the organization and realization of the research work on the optic characteristics of plants growing under different temperature conditions of air and soil. The experimental areas were temperature conditions of air and soil. The experimental areas were at Yakutsk (62° North lat.) and Tixi (71,6° North lat.). The weather conditions are mentioned in table 1. The optical characteristics of the plants were found by means of the method of relative spectrophotometry using a quartz-spectrograph (Tikhov) with a resolving pophotometry using a quarte spectrograph (the area of K and H of 11,3) wer of 1: 20 and a linear dispersion in the area of K and H of 11,3 M/mm. The spectrographic work was carried out under matural conditions of growth with cloudless sky, at the moment of the highest position of the sun and with the exposure of lo seconds. Fig. 1 shows all 3 reflection-, penetration- and absorption curves of solar energy through radies plants. The reflection curve at Yakutsk is higher than that of Tiksi. The energy reflection here is higher because of more favourable temperature conditions. An exception is formed by a narrow band of the

Card 1/3

Light Assimilation by Plants at Yakutsk and Tiksi 20-1-52/54

spectrum in the  $\lambda$  660  $\mu$  m zone where the reflection magnitude of Tiksi is greater than that of Yakutsk. Also the penetration curve through the leaves is in almost any part higher than that of Tixi. The greatest difference is to be found in the section of long ultraviolet, green, yellow and orangecolored rays. An exception is the narrow band of red rays (650 - 660  $\mu$  m) where the penetration in Tixi was greater than that of Yakutsk. The most interesting picture is demonstrated in the case of a comparison of the absorption of radiation energy. Almost over the whole wavediapason the plants of Yakutsk absorb remarkably less solar energy than those of Tiksi. The latter absorb 70 - 80 % even in the green part of the spectrum. The red--orange-yellow part is absorbed up to from 80 - 90 % Especially significant is the absorption of the far red rays and of near infrared radiation which is classified as abiotic. Most essential seems the remarkably greater total absorption of solar ray energy by the plants of Tixi compared with those of Yakutsk. It proves a better utilization by plants growing under hard temperature conditions of air and soil. It seems probable that the reformation of bio-chemical processes in the internal part of the plants occurring under the influence of low outer temperature and accompanied by a change of the

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20-1-52/54

Light Assimilation by Plants at Yakutsk and Tiksi

pigment apparatus makes a complete utilization of solar energy possible. It may be that it is just this energy of the plants that makes possible thewater absorption together with nutrition from a soil with very low temperature. Also the assimilation activity of the same plants was found. The daily production of dry substance was 1,5 times greater in the case of the Tixi plants than in the case of Yakutsk plants. Goncharik calls this "intensity of light nutrition" in the case of potatoes and cabbage. The spectrographic method made possible to interpret this intensity and to determine a complete utilization of sun rays by the plants of the high North, among it of the infrared part. (1 illustration, 2 tables and 5 Slavic references).

ASSOCIATION

Yakutsk Branch of the Academy of Sciences of the U.S.S.R.

(Yakutskiy filial Akademii nauk SSSR)

PRESENTED BY SUBMITTED

KURSANOV, A.L., Academician, April 29, 1957

10.12.1956

AVAILABLE

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Card 3/3

### "APPROVED FOR RELEASE: 08/25/2000

### CIA-RDP86-00513R001652910004-3

55373

SOV/35-59-10-8148

Translation from: Referetivnyy zhurnal. Astronomiya i Geodeziya, 1959, Mr 10, p 73

AUTHOR:

Stanko, S.A.

TITLE:

On the Effect of the Reflection Spectrum of the Mirtian Soil on the Re-

flection Spectrum of Its Vegetation

PERIODICAL:

Tr. Sektora astrobotan. AS KazSSR, 1958, Vol 6, pp 55-64

ABSTRACT:

In order to interpret the spectrophotometric observations of Martian seas, on the assumption that their surface is covered by sparse vegetation, the spectra of terrestrial vegetation and soils of the Turkmenian deserts were studied. The observations were carried out using a field quartz spectrograph with an aperture ratio of 0.05 and a linear dispersion of 11, 34 and 43 m c/mm for 400, 600 and 800 m c, respectively. The NIKFI plates, the "Paninfra" and "Infra" were used which permitted one to obtain the spectral brightness of objects in a range of 300 - 750 m c. The coefficients of the spectral brightness were determined by comparisons with the standard gypsum screen. The photography of vegetation covers (7 objects) was made from the side (in this case the plants formed a continuous green screen), and from above (when the reflection from the soil was added to the reflection from

Card 1/3

69373

sov/35-59-10-8148

On the Effect of the Reflection Spectrum of the Martian Soil on the Reflection Spectrum of Its Vegetation

the plants). From above also zones devoid of vegetation were spectrographed in order to obtain reflections from the soil. A detailed account of the characteristic of the studied objects, plants and soils, is given, as well as information about the daily variation of the temperature and humidity of the air in the areas where the observations took Results are given in the form of graphs which show the change of the brightness coefficient versus the wavelength, while observing plants from the side and from above and the soil from above. Certain conformities are pointed out between the obtained results with the results of the spectrophotometric observations of Mars by N.A. Kozyrev (RZhAstr, 1955. Nr 4, 2709). Big differences are revealed of the reflection properties of the same plant, while it is being spectrally photographed from above and from the side, produced by reflections from the soil. The curves obtained from above, hardly show the main line of chlorophyll absorption in the reflected rays, which is clearly marked when photographed from the side. The curves obtained from the side show a considerably larger reflection in the extreme red rays, than do the curves from above. This signifies that the profile of chlorophyll absorption band in Martian vegetation is dependent on both the Martian climate and the superposition of the spectrum of reflection Card 2/3

69373

sov/35-59-10-8148

On the Effect of the Reflection Spectrum of the Martian Soil on the Reflection Spectrum of Its Vegetation

of soil. The author considers the attempt made by N.A. Kozyrev as being inadequate to explain the resemblance of the spectral curves of seas and of continents on Mars by the properties of its atmosphere. Bibl. 14 titles.

N.S. Orlova

Card 3/3

STANKO, S.A.; BEDENKO, V.P.; HEBOGATIKOVA, M.S.

Utilization of radiation energy by plants in relation to the vertical zonation. Trudy Sekt.astrobot. AN Kazakh.SSR 6:141-157 . . . . . . . . . . (MIRA 11:12)

(Photosynthesis)

SHAKHOV, A.A.; STANKO, S.A.; KOROVIN, A.I.

新月·養養月、三年

HEAL SEE

Ecological characteristics of light assimilation by plants in the North. Izv.Kar.i Kol'.fil.AN SSSR no.4:54-67 '59. (MIRA 13:5)

1. Institut fiziologii rasteniy AN SSSR i Institut biologii Karel'skogo filiala AN SSSR. (Plants, Effect of light on) (Plants, Effect of temperature on)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001652910004-3"

# Seasonal changes in the effection of light by conifer needles in a permafrost zone. Trudy Sekt.astrobot.AN Kazakh SSR 7: 166-178 '59. (MIRA 13:5) (Coniferae--Optical properties) (Frozen ground)

SHAKHOV, A.A.; STANKO, S.A.; KHAZANOV, V.S.; D'YAKONOV, F.S.

Spectral characteristics of plants. Bot.shur. ## no.12:1681-1693 D 159. (MIRA 13:4)

1. Institut fiziologii rasteniy AN SSSR, i Vsesoyuznyy nauchnoissledovatel'skiy svetotekhnicheskiy institut, Moskva. (Arctic regions--Leaves--Optical properties)

SHAKHOV, A.A.; KHAZANOV, V.S.; STANKO, S.A.

The true spectral properties of plants. Bot. zhur. 46 no. 2:222-233 F '61. (MIRA 14:2)

1. Institut fiziologii rasteniy im. K.A. Timiryazeva Akademii nauk SSSR i Vsesoyuznyy nauchno-issledovatel'skiy svetotekhni-cheskiy institut, Moskva.

(Leaves-Optical properties)

SHAKHOV, A.A.; STANKO, S.A.; KHAZANOV, V.S.

Role of the photoadaptation and photoreactivation of plants in:
space flight. Probl.kosm.biol. 2:340-353 \*62. (MIRA 16:4)
(PIANTS, EFFECT OF LIGHT ON)
(LIFE SUPPORT SYSTEMS (SPACE FLIGHT))

FEDOROVA, L.L.; SHAYDUROV, V.S.; STANKO, S.A.

Efficiency of the action of a herbicide mixture in forage cabbage plantations. Fixiol. rast. 9 no.6:735-737 '62. (MIRA 15:12)

1. Polar Experimental Station of All-Union Institute of Plant Growing, Whibiny and K.A. Timiriazev Institute of Plant Physiology, U.S.S.R. Academy of Sciences, Moscow.

(Murmansk Province—Cabbage)

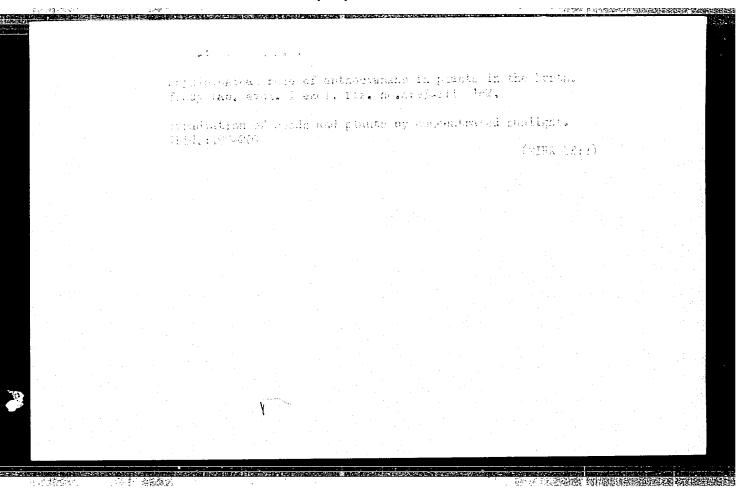
(Herbicides)

SHAKHOV, A.A.; KHAZANOV, V.S.; STANKO, S.A.; OSTAPOVICH, L.F.

Photoadaptation and photoreactivation of plants in the mountains
Bot.zhur. 47 no.1:68-78 Ja 162. (MIRA 15:2)

1. Institut fiziologii rasteniy imeni K.A.Timiryazeva AN SSSR . Moskva, Vsesoyuznyy nauchno-issledovatel'skiy svetotekhnicheskiy institut, Moskva i Pamirskiy botanicheskiy sad AN Tadzhikskoy SSR, g. Khorog.

(Pamirs--Plants, Effect of light on)



ETANKO, S.A.

Effect of light on the formation and composition of anthocyanins in potate tubers during vernalization. Dokl. AN SSER 146 no.2:480-483 S 162. (MIRA 15:9)

1. Institut fiziologii rasteniy im. K.A. Timiryazeva AN SSSR. Predstavleno akademikom A.L. Kursanovym.

(Plants, Effect of light on) (Anthocyanin)

STANKO, S.A.; BARDINSKAYA, M.S. [deceased]

Anthocyanian of callus tissues in Parthenocissus tricuspidata. Dokl. AN SSSR 145 no.4:956-959 0 162. (MIRA 15:11)

1. Institut fiziologii rasteniy im. K.A. Timiryazeva AN SSSR. Predstavleno akademikom A.L. Kursanovym. (Anthocyanin) (Plants--Metabolism)

FEDOROVA, L.L.; SHAYDUROV, V.S.; STANKO, S.A.

Herbicides for cabbage fields. Zashch. rast. ot vred. i bol. 8 no.4:54 Ap '63. (MIRA 16:10)

1. Polyarnaya opytnaya stantsiya Vsesoyuznogo instituta rasteniyevodstva i Institut fiziologii rasteniy imeni K.A. Timiryazeva AN SSSR.

(Murmansk Province--Cabbage) (Murmansk Province--Weed control)

SHAKHOV, A.A.; STANKO, S.A.; NARINYAN, S.G.

Effect of the solar radiation on Mount Aragats on the spectral properties of plants. Dokl. AN Arm. SSR 36 no.1:45-49 '63. (MIRA 17:1)

1. Institut fiziologii rasteniy imeni K.A. Timiryazeva AN SSSR i Botanicheskiy institut AN Armyanskoy SSR. Predstavleno akademikom AN Armyanskoy SSR G.Kh. Bunyatyanom.

STANKO, S.A.; ZAKMAN, L.M.

Physiological significance of anthocyanins in plants. Bot. zhur. 49 no.3:372-381 Mr 64. (MIRA 17:3)

1. Institut fiziologii rasteniy AN SSSR, Moskva i Polyarnoal'piyskiy botanicheskiy sad, Kirovsk.

ACCESSION NR: AP4040965

5/0020/64/156/005/1232/1235

AUTHOR: Stanko, S. A.

TITIE: Effects of prematched irradiation of tuber potatoes with white and monochromatic concentrated sunlight upon the synthesis and composition of anthocyanins, growth of chlorophyll and harvest

SOURCE: AN SSSR. Doklady\*, v. 156, no. 5, 1964, 1232-1235

TOPIC TAGS: plant physiology, biology, organism function, photosynthesis, sunlight, anthocyanine, vernalization, tuber, potato irradiation

ABSTRACT: This is a continuation of a previous work by the author in which he showed that the intensity and quality of light during the vernalization of tuber potatoes have a decisive effect upon the quantity and composition of anthocyanines (DAN, 146 (1962), 480). The present work is a study of the effects of a shor-lived irradiation of a tuber with concentrated prematched white and monochromatic sunlight upon the synthesis and anthocyanine concentration and the consequences of this irradiation upon the growth of chlorophyll, quantity of plastid pigments and size and quality of the potato crop. Findings show that while and monochromatic irradiation have different effects upon crop and quality.

Card 1/2

SHAKHOV, A.A.; KHAZANOV, V.S.; STANKO, S.A.

Spectral light absorption capacity of the leaves of tree crowns. Fiziol.rast. 12 no.1:22-26 Ja-F '65. (MIRA 18:3)

1. Institut fiziologii rasteniy imeni Timiryazeva AN SSSR, Moskva i Vsesoyuznyy nauchno-issledovatel'skiy svetotekhnicheskiy institut, Moskva.

SHAKHOV, A.A., SHISHCHENKO, S.V., STANKO, S.A., SHAYDUROV, V.S., GOLUBKOVA, B.M.

Ultraviolet irradiation of plants as a problem of space phytophysiology. Probl. kosm. biol. 4:474-486 165. (MIRA 18:9)

SHAKHOV, A.A.; BIDZELYA, N.I.; STANKO, S.A.; NABIULLIN, F.Kh.

Photoinduced EPR signals in seeds. Biofizika 10 no.4: 710-713 '65. (MIRA 18:8)

1. Institut fiziologii rasteniy im. K.A. Timiryazeva AN SSSR, Moskva; Institut fiziologii rasteniy AN UkrSSR, Kiyev i Vsesoyuznyy nauchno-issledovatel'skiy institut istochnikov tokov, Moskva.

DD/RD UR/2865/65/004/000/0474/0486
L 1 4296-66 EWT(1)/FS(v)-3 SCTB DD/RD SOURCE CODE: UR/2865/65/004/000/0474/0486
ACC NR: AT6003882 S. V.: Stanko, S. A.; Shaydurov, V. S.
chi shchenko,
AUTHOR: Shakhov, A. A.; Sitts.  Golubkova, B. M.  ORG: none  Z, 44  TITIE: Ultraviolet irradiation of plants as a problem of space phytophysiology  None of plants as a problem of space phytophysiology  TITIE: Ultraviolet irradiation of plants as a problem of space phytophysiology
Golubkova, B. M.
ORG: none Z, till of plants as a problem of space, biologic,
Problemy kosmicheskoy blozza
ORG: none  Z, 40  TITIE: Ultraviolet irradiation of plants as a problem of space problem of space of plants as a problem of space plant physiologic of plants as a problem of space problem of space plant physiologic of plant physiology, UV irradiation, photosynthesis, space biologic plant physiology, UV irradiation, photosynthesis, space problem of space plant physiology, UV irradiation, photosynthesis, space biologic plant physiology, UV irradiation, photosynthesis, space problem of space problem of space problem of space problem of space plants as a problem of space problem of space plants as a problem of space problem of space plants as a problem of space plants are p
TOPIC TAGS: plant physiology, radiation plant effect
TOPIC TAGS: plant physiology, UV irradiation, respectively, respectively, plant growth, radiation plant effect experiment, plant growth, radiation plant effect which includes results of many!
ABSTRACT: The purpose of this some aspects of the hard area of investigation experiments, is to explore some aspects of the hard area of investigation experiments, is to explore some aspects of the hard area of investigation experiments, and to emphasize this area of investigation area of investigation and the hard area of investigation area of investigation and investigation area of investigation area of investigation area of investigation and investigation area of investigation
space biology. In the lift golar illumination well simultaneously, of
experiments, is to explore some and to emphasize this radiation on photosynthesis, and to emphasize this radiation on photosynthesis, and to emphasize this radiation on photosynthesis, and to emphasize this radiated plants grown radiation on photosynthesis, and to emphasize this radiated plants grown radiation on photosynthesis, and to emphasize this radiated, plants grown radiation on photosynthesis, and to emphasize this radiated plants grown radiated additionally space biology. In the first group of experiments described, plants grown radiation on photosynthesis, and to emphasize this radiated additionally space biology. In the first group of experiments described, plants grown radiation on photosynthesis, and to emphasize this radiation on photosynthesis, and to emphasize this radiated additionally space biology. In the first group of experiments described, plants grown upon the first group of experiments described, plants grown upon the first group of experiments described, plants grown upon the first group of experiments described, plants grown upon the first group of experiments described, plants grown upon the first group of experiments described, plants grown upon the first group of experiments described, plants grown upon the first group of experiments described, plants grown upon the first group of experiments described, plants grown upon the first group of experiments described, plants grown upon the first grown upon the f
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violet irradiance range
Card 1/3

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ACC NR: AT6003882

chloroplasts separated from these plants showed that shortwave UVirradiation changes the submicroscopic structure of chloroplasts. But, owing to the photoreactivation capacity of plants, some recovery from injuries occurs. Thus chloroplasts of some plants are fairly resistant to artificial UV-irradiation during the polar day.

A second series of experiments was conducted at an altitude of 3200 m, where the level of natural ultraviolet radiation is higher than at sea level. When radishes were subjected to additional artificial UV-irradiation daily for 10 minutes (irradiance of 1700 erg/cm<sup>2</sup>), changes in chloroplast structure and pigment content were observed. Changes in the pigment content, determined by paper chromatography and spectrophotometry, depend on the ultraviolet wavelength, the duration of irradiation, stage of development of the plant, etc.

More study of the complex effects of UV-irradiation on plants is urgently needed. Preliminary studies by the authors showed that in chloroplasts of cabbage, beet, bean, turnip, and pea leaves, pigment content increased during short-term UV-irradiation, and decreased when the

Card 2/3

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ACC NR: AT6003882

exposure was longer. Studies conducted at high altitude laboratories have established that when natural ultraviolet irradiance is high, absorption by leaves of radiant energy from ultraviolet and infrared rays increases. These data indicate that plants growing in extreme conditions (such as spaceflight) use radiant energy in a wider spectral band for their vital activity. It has been observed that photosynthesis in wild alpine plants proceeds at normal levels or higher. This is one of the reasons to suspect that with sufficiently intense, around-the-clock illumination, plants in spaceflight conditions may not require protection from the entire ultraviolet spectrum.

Further research must be conducted on the use of parts of the ultraviolet spectrum to increase the resistance of plants to other cosmic radiation factors. Orig. art. has: 7 tables. [ATD PRESS: 4091-F]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 018 / OTH REF: 004

PC

Card 3/3

STANKO, V.; HASIK, A.

On the problem of local use of antibiotics in surgery. Bratisl. lek. listy 41 no.7:445-448 '61.

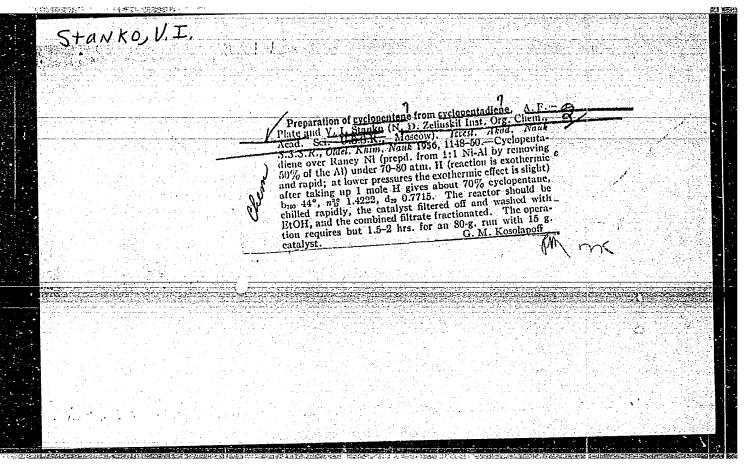
1. Z Stomatologickej kliniky Lek. fak. Univ. Komenskeho v Bratislave, prednosta doc. MUDr. S. Velgos, a z Katedry experimentalnej patologie a farmakologie Lek. fak. Univ. Komenskeho v Bratislave, veduci prof. MUDr. G. Bardos[deceased]

(ANTIBIOTICS ther)

STANKO, V.

The Ruence of bacitracin on the regression of pain due to in ipient eriostitis. Cesk. stomat. 65 no.3:184-189 My 165.

1. Stomatologicka klinika Lekarskej fakulty University Komenskeho v Bratislave ( prednosta: prof. dr. S. Velgor .



STANKO, V.I.

PA - 3160

AUTHOR TITLE

On the interaction of the Iotsich reagents with & 2-chloro-PLATE A.F., STANKO V.I. cyclopentene. (O vzaimodeystvii reaktiva Iotsicha s

Doklady Akademii Nauk SSSR 1957, Vol 113, Nr 3, pp 616-619 & 2-Tsiklopentenilkhloridom - Russian)

PERIODICAL

Reviewed: 8/1957

ABSTRACT

The synthesis of some cyclopentane-hydrocarbons was carried Received: 6/1957 out. On the occasion of the investigation of the interaction of A2-chlorocyclopentane and the reagens of iotsich it became evident that on this occasion a di- & 2-cyclopenteneacetylene (I) is formed in a quantity of 20-36 % on which occasion, however, an approximatively equal quantity (28-35 %) of \$\times^2\$-cyclopenteneacetylene is produced. Attempts to change the conditions on the occasion of the reaction did not lead to an increase of the yield of cyclopenteneacetylene. The constant quantity of the two possible reaction products is independent of the quantity of the used reagentia and the important yield of & 2 cyclopenteneacetylene can be speciously explained by the different velocities of the interaction between the & 2-chlorocyclopentene and the two possible magnesia-organic compounds. The di- & 2-cyclopentene-

CARD 1/2

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# "APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-

### CIA-RDP86-00513R001652910004-3

20-2-29/60

AUTHORS:

Plate, A. F., Stanko, V. I.

TITLE:

On the Interaction of Tetramethylene- and Pentamethylenedimagnesium Bromides With  $\Delta^2$ -Cyclopentenyl Chloride (0 vzaimodeystvii tetrametilen- i pentametilendimagniybromidov c  $\Delta^2$ -tsiklopentenilkhloridom)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1957, Vol. 114, Nr 2, pp. 339-342 (USSR)

ABSTRACT:

In the context of further development of the investigations by the authors of the paper under review on production of hydrocarbons with 25-term cycles in accordance with a general

 $\square$  (CH<sub>2</sub>)<sub>n</sub>  $\square$ 

for the purpose of arriving at 1,4-dicyclopentylbutane and 1,5-dicyclopentylpentane, the authors investigated the interaction of  $\Delta^2$ -cyclopentenyl chloride with dimagnesium derivatives of the 1,4-dibrombutane and 1,5-dibrompentane. It was seen that the main products of the reaction of  $\Delta^2$ -cyclo-

Card 1/3

20-2-29/60

On the Interaction of Tetramethylene- and Pentamethylenedimagnesium Bromides With  $\Delta^2$ -Cyclopentenyl Chloride

pentenyl chloride with tetramethylene- and pentamethylenemagnesium chloride form the expected 1,4-di- $(\Delta_2^2$ -cyclopentenyl)--butane (47-51%) and correspondingly 1,5-di( $\Delta^2$ -cyclopentenyl)--pentane (30 %). At the same time, however, hydrocarbons were formed with a cycle of only 5 terms. This was demonstrated at catalytic hydration by the production of n-butylcyclopentane and n-amylcyclopentane. It was shown at the qualitative determination of the hydrogen which at the hydrogenation of the unsaturated hydrocarbon attaches itself to it with a cycle of only 5 terms, that there are two double bonds in the molecule. Their position can be determined from the structure of the initial substances. The formation of olefines in the conditions of the Grignard's reaction is characteristic for secondary and tertiary haloidalkyls. However, this lateral reaction was also observed in the case of the primary haloidalkyls. This double bond probably is in the  $\alpha$ -position. In this context, an isomerization with displacement of the double bond is hardly possible, because it is known that the interaction of alkalimagnesiumhalogenides represents one of the most reliable methods for  $\alpha$ -olefine production without admixture of isomers with a double bond in

Card 2/3

20-2-29/60

On the Interaction of Tetramethylene- and Pentamethylenedimagnesium Bromides With  $\Delta^2$ -Cyclopentenyl Chloride

a different position. Thus it is possible to attribute to the obtained hydrocarbons with a single 5-term cycle the structure of the  $1-(\Delta^2$ -cyclopentenyl)-butene-3 and  $1-(\Delta^2$ -cyclopentenyl)-pentene-4, respectively. The present paper also contains structural schemes. The previously unknown 1,4-dicyclopentylbutane and 1,5-dicyclopentylpentane are obtained by catalytic hydrogenation of the appropriate  $\Delta^2$ -cyclopentenyl compounds. The experimental part of the paper under review describes in detail the production methods together with constants and yields. There are 10 references, 3 of which are Soviet.

ASSOCIATION:

Institute of Organic Chemistry imeni N. D. Zelinskiy, AS USSR (Institut organicheskoy khimii imeni N. D. Zelinskogo Akademii nauk SSSR)

PRESENTED:

February 28, 1956, B. A. Kazanskiy, Member of the Academy December 27, 1956

SUBMITTED: AVAILABLE:

Library of Congress

Card 3/3

STANKO, V. I. Cand Chem Sci -- (diss) "Synthesis and properties of dicyclo-pentylalkanes." Mos, 1958. 13 pp (Acad Sci USSR. Inst of Organic Chemistry im N. D. Zelinskiy), 120 copies (KL, 14-58, 110)

-19-

SOV/62-58-12-11/22 5(3) Plate, A. F., Stanko, V. I. AUTHORS: Synthesis of Dicyclopentyl Methane and 1,3-Dicyclopentyl Propane on the Basis of Cyclopentadiene (Polucheniye ditsiklo-TITLE: pentilmetara i 1,3-ditsiklopentilpropana na osnove tsiklopentadiyena) Izvestiya Akademii nauk SSSR, Otdeleniye khimicheskikh nauk, PERIODICAL: 1958, Nr 12, pp 1472-1475 (USSR)  $\alpha, \omega$ -dicyclopentyl alkanes are insufficiently investigated and ABSTRACT: they have been hardly described at all in publications.  $\alpha,\omega$ -dicyclohexyl alkanes are much better investigated. To investigate the physical properties as well as the spectra of the Raman scattering of these hydrocarbons, the authors synthesized the first members of the  $\alpha, \omega$ -dicyclopentyl alkane series (Refs 2 and 3). Along with the hydrocarbons mentioned in this paper, hydrocaroons with two five-membered nuclei of the common were obtained, where n is \_-(CH<sub>2</sub>)<sub>n</sub>formula equal to from 0 to 5. In the synthesis of dicyclopentyl methane the authors proceeded from cyclopentadiene, on the assumption Card 1/3

sov/62-58-12-11/22

- Synthesis of Dicyclopentyl Methane and 1,3-Dicyclopentyl Propane on the Basis of Cyclopentadiene

that no isomerization of the cycles could then take place. In fact, the constants of the obtained dicyclopentyl methane differed somewhat from those mentioned in publications. The synthesis of the earlier not described 1,3-dicyclopentyl propane wan carried out according to the following scheme:

In the stage of the interaction between 1-bromo-3-cyclopentyl propane and magnesium and  $\Delta^2$ -cyclopenteryl chloride the formation of 3-( $\Delta^2$ -cyclopenteryl)-1-cyclopentyl propane as well as of allyl cyclopentane were observed. A similar case was described already earlier (Ref 3). In the table the physical properties of the obtained  $\alpha_2\omega$ -dicyclopentyl alkanes are mentioned.

Card 2/3

SOV/62-58-12-11/22

Synthesis of Dicyclopentyl Methane and 1,3-Dicyclopentyl Propene on the Basis of Cyclopentadiene

There are 1 table and 8 references, 6 of which are Soviet.

ASSOCIATION:

Institut organicheskoy khimii imeni N. D. Zelinskogo Akademii

nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy, Academy of Sciences, USSR)

SUBMITTED:

April 3, 1957

Card 3/3

ACC NR. AP7003330

SOURCE CODE: UR/0079/66/036/012/2219/2219

AUTHOR: Stanko, V. I.; Klimova, A. I.

ORG: none

TITLE: m-Dibarenyl

SOURCE: Zhurnal obshchey khimii, v. 36, no. 12, 1966, 2219

TOPIC TAGS: carborane, isomerization, carborane condensation, boron

compound

ABSTRACT: Heating of o-carborane to 580—6000 for 12 hr resulted not only in the isomerization of o-carborane to m-carborane, but also in the simultaneous condensation of m-carborane nuclei to form "m-dibarenyl" (mp, 216—2180). In addition to m-dibarenyl, products with 3, 4 or more barenyl nuclei were formed. m-Dibarenyl was also formed on heating m-carborane under similar conditions.

 $\text{o-HCB}_{10}\text{H}_{10}\text{CH} \xrightarrow{\text{eoo}\bullet} \text{a-HCB}_{10}\text{H}_{10}\text{C} - \text{CB}_{10}\text{H}_{10}\text{CH} \xrightarrow{\text{eoo}\bullet} \text{a-HCB}_{10}\text{H}_{10}\text{CH}$ 

The apparatus, experimental procedure, and IR spectra of m-dibarenyl

Card 1/2

VDC: 546.271

ACC NR: AP7003330												7
are	briefly described in the source.								[W.	A. 77] [BO]		
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Card	2/2			t est				· .				

5(3) AUTHORS:

Stanko, V. I., Plate, A. F.

SOY/62-59-1-19/38

TITLE:

Synthesis of 1,1-Dicyclopentyl Ethane and 1,2-Dicyclopentyl Propane on the Basis of Cyclopentadiene (Sintez 1,1-ditsiklopentiletana i 1,2-ditsiklopentilpropana na osnove tsiklopentadiyena)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, 1959, Nr 1, pp 115 - 120 (USSR)

ABSTRACT:

Hydrocarbons of the dicyclopentylalkylmethane series and dicyclopentylalkyl ethane series have not yet been described in publications. In the present paper the authors began investigation on the basis of cyclopentadiene as they had already done earlier. The interaction of  $\Delta^2$ -cyclopentenyl chloride with ethyl acetate in the presence of magnesium was investigated. It was shown that the condensation of two molecules of  $\Delta^2$ -cyclopentenyl chloride is the basic direction of the reaction whereby  $\operatorname{di-}(\Delta^2-\operatorname{cyclopentenyl})$  is synthesized. The yield of  $di(\Delta^2$ -cyclopentenyl) methyl carbinol does not exceed 5%. 1,1-dicyclopentyl ethane was obtained in two ways for the first time: 1) by hydrogenation of  $1-(\Delta^2 \text{cyclo-}$ 

Card 1/2

Synthesis of 1,1-Dicyclopentyl Ethane and 1,2-Dicyclo-

sov/62-59-1-19/38

pentyl Propane on the Basis of Cyclopentadiene

pentenyl)-1-cyclopentyl ethane which was obtained by the reaction of Grignard from 1-bromo-1-cyclopentyl ethane and  $\Delta^2$ -cyclopentenyl chloride; 2) by hydrogenation of cyclopentylmethyl fulvene which was synthesized from cyclopentadiene and methyl cyclopentyl ketone. In addition, the following compounds were obtained which so far have not been described in publications: di-( $\Delta^2$ -cyclopentenyl)-methyl carbinol, 1-cyclopentyl ethanol-1, 1-bromo-1-cyclopentyl ethane,  $1-(\Delta^2-\text{cyclopentenyl})-1-\text{cyclopentyl}$  ethane, 2-bromo-1-cyclopropane,  $1-(\Delta^2$ -cyclopentenyl)-2-cyclopentyl propane. There

are 14 references, 7 of which are Soviet. Institut organicheskoy khimii im. N. D. Zelinskogo Akademii

nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelins-

kiy of the Academy of Sciences, USSR)

SUBMITTED:

ASSOCIATION:

April 3, 1957

Card 2/2

5 (37), 24 (7)

Markova, S. V., Bazhulin, P. A., AUTHORS:

SOV/62-59-7-18/38

Stanko, V. I., Plate, A. F.

TITLE:

Optical Method of Investigation of Hydrocarbons (Opticheskiy metod issledovaniya uglevodorodov). Communication 11. Raman Spectra of Dicyclopentyl and Dicyclopentyl Alkanes (Soobshcheniye 11. Spektry kombinatsionnogo rasseyaniya ditsiklo-

pentila i ditsiklopentilalkanov)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

1959, Nr 7, pp 1280 - 1287 (USSR)

ABSTRACT:

The present paper is a continuation of a series of papers (Refs 1-10) on the investigation of the Raman spectra of hydrocarbons carried out in the optical laboratory of the Fizicheskiy institut im. P. N. Lebedeva, AN SSSK (Institute of Physics imeni P. N. Lebedev of the AS USSR) and in the laboratory of the Komissiya po spektroskopii (Committee of Spectroscopy), together with the institute mentioned in the Association. The results of the investigation of the Raman dispersion of 8 hydrocarbons (dicyclopentyl and its alkanes) are given. The following parameters of the Raman lines were determined: the frequency  $\Delta \gamma$ , the intensity in the line maximum

Card 1/4

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Optical Method of Investigation of Hydrocarbons. Communication 11. Raman Spectra of Dicyclopentyl and Dicyclopentyl Alkanes

sov/62-59-7-18/38

 $(I_0)$ , the integral intensity  $(I_\infty)$  the line width  $\delta$  and the depolarization degree (9). The frequencies and the intensity maxima were measured by means of the spectrograph ISP-51. The integral intensity was determined by means of a diffraction integral intensity was determined by means of a diffraction grating constructed by Sushchinskiy (Ref 12). All results of grating constructed by Sushchinskiy (Ref 12) all results of grating intensity were expressed on a scale with the integral intensity were expressed on a scale with the integral intensity were expressed on a scale with the integral intensity were expressed on a scale with the integral intensity were expressed on a scale with the integral intensity were expressed on a scale with the integral intensity were expressed on a scale with the intensity was determined by means of 802 cm<sup>-1</sup> equal

tegral intensity of the line of cyclohexane of 802 cm<sup>-1</sup> equal 500. The spectra of the investigated substances consisted of weak and diffuse lines. The mean error of the integral intensity amounted to ~10%. The depolarization degree was measured by means of a Zeiss spectrograph. A special illumination system was constructed for the surveys. The results of the measurements of frequency, intensity, and depolarization degree are given in table 1. The purity of the investigated substances was examined before the survey. The determined frequencies, was examined before the survey. The determined frequencies, the production, the physical and chemical properties of the investigated substances: dicyclopentyl-methane, 1,2-dicyclopentyl-tylethane, 1,3-dicyclopentylpropane, 1,4-dicyclopentylbutane,

Card 2/4

Optical Method of Investigation of Hydrocarbons. SOV/62-59-7-18/38 Communication 11. Raman Spectra of Dicyclopentyl and Dicyclopentyl Alkanes

1,5-dicyclopentylpentane, 1,1-dicyclopentylethane, and 1,2-dicyclopentylpropane are given in brief. The following conclusions were drawn from the results (only the spectrum of the dicyclopentyl is known in the publications): the most intensive line at  $\sim 895$  cm<sup>-1</sup> found in all spectra was ascribed to the fully symmetrical oscillation of the five-membered ring as its characteristic. Table 2 gives the values of the integral intensity of this line of all 8 substances investigated, the mean value is at 340. The integral intensity of a compound with one ring only amounts to only the half. The intensities for the different low frequencies are represented in table 3. Lines are found here which correspond to the oscillations of the CH, group. The intensity of these lines increases with the increase of the chain between the two five-membered rings. The most intensive line at 600 cm<sup>-1</sup> is reduced with the increase of the distance -1 between the rings. The lines of the frequencies of 200 - 600 cm were characteristic of the individual hydrocarbons. There are references, 21 of which are Soviet. 3 tables and 26

Card 3/4

Optical Method of Investigation of Hydrocarbons.

SOV/62-59-7-18/38

Communication 11. Raman Spectra of Dicyclopentyl and

Dicyclopentyl Alkanes

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva Akademii nauk SSSR (Institute of Physics imeni P. N. Lebedev of the Academy of Sciences, USSR). Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences, USSR)

SUBMITTED:

November 1, 1957

Card 4/4

CIA-RDP86-00513R001652910004-3" APPROVED FOR RELEASE: 08/25/2000

Hydrogenation of di-(1 -cyclopentenyl)acetylene of Pd Pt, and Mi

Hydrogenation of di-(2 -cyclopentenyl)acetylene of Pd Pt, and Mi

catalysts. Izv.AN SSSR Otd.khim.nauk no.8:1481-1489 Ag 160.

(MIRA 15:5)

1. Institut organicheskoy khimii im. N.D.Zelinekogo AN SSSR.

(Acetylene) (Hydrogenation) (Gatalysts)

BAZHANT, V. [BaZant, V.], laureat Gosudarstvennoy premii; KHVALOVSKI, V. [Chvalovský, V.], laureat Gosudarstvennoy premii; RATOUSKI, I. [Rathouský, J.], laureat Gosudarstvennoy premii; VAYNSHTEYN, Yu.I. [translator]; STANKO, V.I. [translator]; PAKHOMOV, V.I., red.; ZAZUL'SKAYA, V.F., tekhn.red.

[Silicones; organomilicon compounds, their production, properties, and uses] Silikony; kremmitorganicheskie scedinenia, ikh poluchenie, svoistva i primenenie. Moskva, Gos.nauchno-tekhn.izd-vo khim.lit-ry, 1960. 709 p. Translated from the Czech.

(Silicon organic compounds) (MIRA 14:4)

s/062/60/000/008/024/033/XX B013/B055

AUTHORS:

Plate, A. F. and Stanke, V. I.

TITLE:

Hydrogenation of Di- $(\Delta^2$ -cyclopentenyl)-acetylene on Pd-,

Pt-, and Ni Catalysts

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

1960, No. 8, pp. 1481-1489

TEXT: The present paper treats the hydrogenation of a compound containing a double bond in each cf two five membered rings and a triple bond between the rings, i.e., di-(\(\Delta^2\)-cyclopentenyl)-acetylene (I) in the presence of various catalysts. Partially selective addition of hydrogen would mainly yield a hydrocarbon with three isolated double bonds. The study was under-taken to clarify the mechanism of its hydrogenation. Di-(\Delta^2-cyclopentenyl)acetylene was prepared by reaction of the Iotsich complex with  $\Delta^2$ -cyclopentenyl chloride (Ref. 18). Hydrogenation was carried cut at room temperature and atmospheric pressure, a fresh catalyst being used for each experiment. It was found that over Pd, the triple bond in di-( $\Delta^2$ -cyclopentenyl)-acetylene is selectively hydrogenated to a double bond. On

Card 1/3

Hydrogenation of Di-( $\Delta^2$ -cyclopentenyl)—acetylene on Pd-, Pt-, and Ni Catalysts

S/062/60/000/008/024/033/XX B013/B055

Pt, di- $(\Delta^2$ -cyclopentenyl)-acetylene adds three moles of H<sub>2</sub>, forming 1,2-dicyclopentyl ethylene, the double bonds in the five-membered rings being preferentially hydrogenated. Owing to the isomerizing effect of the Pd catalyst, the reaction product obtained after the addition of three  $\rm H_2$  molecules to di-( $\rm \Delta^2$ -cyclopentenyl)-acetylene over Pd is a mixture of unsaturated hydrocarbons. This mixture consists primarily of 1,2-dicyclopentyl ethylene and 1-(Al-cyclopentenyl)-cyclopentyl ethane. The preferential addition of hydrogen to the double bonds in the five-membered ring as compared to double bonds in open chains was demonstrated by partial (50%) hydrogenation of an equimolar mixture of 3-methyl 1-cyclopentene and 2-octene over Pt black. In the presence of Rainey Ni, hydrogen is at first absorbed at a constant rate. After absorption of two H, molecules, the hydrogenation rate gradually decreases. Fractional distillation of the catalyzate showed that the mixture contained none of the components in major quantities. The mixture had a wide boiling range and was not further examined. This investigation allows the conclusion that in a molecule, the presence of dcuble bonds in the five-membered rings adjacent to the triple bond does not present the selective hydrogenation of this triple bond over Pd. In this case, too, the molecule is probably adsorbed

Card 2/3

Hydrogenation of  $Di(\Delta^2$ -cyclopentenyl)acetylene on Pd-, Pt-, and Ni Catalysts

S/062/60/000/008/024/033/XX B013/B055

on the catalyst mainly at the triple bond. Yu. S. Zal'kind, S. V. Lebedev, M. S. Platonov, B. A. Kazanskiy, M. Yu. Lukina, A. I. Malyshev, I. V. Gostunskaya, N. B. Dobroserdova, V. N. Ipatiyev, N. D. Zelinskiy are mentioned. The authors thank V. T. Aleksanyan and Kh. Ye. Sterin of the laboratoriya Komissii po spektroskopii AN SSSR (Laboratory of the Commission for Spectroscopy AS USSR) and M. M. Sushchinskiy of the Fizicheskiy institut im. P. N. Lebedeva AN SSSR (Physics Instituteimeni P. N. Lebedev AS USSR) for carrying out the spectroscopic analyses of catalyzates. There are 1 figure, 1 table, and 23 references: 14 Soviet, 4 French, 3 US, 1 British, and 1 German.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii

nauk SSSR

(Institute of Organic Chemistry imeni N. D. Zelinskiy of the

Academy of Sciences USSR)

SUBMITTED:

March 7, 1959

Card 3/3

\$/051/60/008/04/010/032 B201/B691 Markova, S.V., Bashulin, P.A., Plate, A.F. and Stanko, V.I. Investigation of the Infrared Absorption Spectra of Dicyclic AUTHORS: TITLE: Hydrocarbons 1 PERIODICAL: Optika i spektroskopiya, 1960, Vol 8, Nr 4, pp 492-497 (USSR) The authors investigated the infrared absorption spectra of fivemember and six-member dicyclic hydrocarbons in the region from The majority of the five-member compounds was first ABSTRACT: prepared in the Laboratory of Catalytic Synthesis of the Institute of Organic Chemistry imeni N.D. Zelinskiy (Ref 1). The results reported in the present paper supplement those on the Raman spectra of the same compounds reported by Markova et al. (Ref 2) and Peregudov et al. (Ref 3). All measurements were made with double-beam spectrometer, consisting of a standard monochromator IKS-11 and an automatic device developed in the authors' laboratory (Ref 4). the 3  $\mu$  region the compounds were dissolved in CCl<sub>4</sub> (1% concentration) before measurements. In other regions of the spectrum pure compounds were employed. The effects of scattered and reflected light were allowed for by placing a cell with the appropriate compound in the Card 1/3

S/051/60/008/04/010/032 B201/B691

Investigation of the Infrared Absorption Spectra of Dicyclic Hydrocarbons

calibration beam as well as in the working beam. Table I lists the infrared frequencies of all the compounds investigated. The errors in determinations of the frequencies varied between 1 and 2 cm-1 Table 1 lists also the depending on the region of the spectrum. estimated absorption intensities using a five-degree scale: wery strong, strong, medium, weak, very weak. Fig 1 shows by way of illustration the spectra of dicyclohexyl between 700 and 1500 cm-1 and Fig 3 shows the absorption spectra of six hydrocarbons in the ~3000 cm -1 Tables 2-5 list the measured values of the absorption coefficients of certain selected bands. Table 6 compares the Raman and infrared spectra of some of the compounds studied. For some bands the authors investigated dependence of the integral absorption coefficient and the absorption coefficient at the band maxims on the number of absorbing groups in a molecule. Fig 2 shows that the integral absorption coefficient rises linearly with the number of absorbing CH2 groups. A similar linear dependence ("additivity") was found for

Card 2/3

S/051/60/008/04/010/032 E201/E691

Investigation of the Infrared Absorption Spectra of Dicyclic Hydrocarbons

the absorption coefficient at the band maxima. There are 3 figures, 6 tables and 17 references, 9 of which are Soviet, 4 English,

2 German, 1 mixed (English and German) and 1 from Spectrochimica Acta.

SUBMITTED: July 16, 1959

Card 3/3

84862

5/062/60/000/010/016/018 B015/B064

11.1250

AUTHORS:

Zakharkin, L. I. and Stanko, V. I.

Simple Synthesis of Triallyl Boron and Some of Its

TITLE:

Conversions

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh

nauk, 1960, No. 10, pp. 1896 - 1898

TEXT: A simple method of preparing trially boron is described, which differs from the syntheses of A. V. Topchiyev et al. (Refs. 2-4), and B. M. Mikhaylov and F. B. Tutorskaya (Ref.5), respectively, insofar as allyl aluminum sesquibromide is used, and the reactions proceed as

 $(c_3^{H_5})_3^{Al_2^{Br_3}} + {}^{BF_3}(c_2^{H_5})_2^{O} \longrightarrow {}^{B(c_3^{H_5})_3} + {}^{AlF_3} + {}^{AlBr_3}(c_2^{H_5})_2^{O} \text{ or }$  $(c_3^{H_5})_3^{Al_2^{Br_3}} + B(oc_4^{H_9})_3 \longrightarrow B(c_3^{H_5})_3 + AlBr_3 + Al(oc_4^{H_9})_5$ 

In contrast to the data of Topchiyev et al., triallyl boron was found to

Card 1/2

84862

Simple Synthesis of Triallyl Boron and Some S/062/60/000/010/016/018 of Its Conversions S/062/60/000/010/016/018

react readily with bromine, also at temperatures down to -35°C, with the C-B bond being ruptured, bromine adding to the double bond, and 1,2,3-tri-bromopropane forming as the principal product. A disproportionation under the formation of the dibutyl ester of allyl boric acid takes place when triallyl boron is heated with tributyl borate. With mercury chloride, triallyl boron forms apparently allyl mercury chloride in an aqueous solution; it was, however, not possible to isolate this compound. In the reaction of triallyl boron with thallium trichloride in an aqueous solution, the latter is quantitatively converted into thallium monochloride. The individual steps of preparation are described. There are 9 references: 4 Soviet, 2 German, 1 US, 1 Japanese, and 1 French.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii

nauk SSSR (Institute of Elemental-organic Compounds of

the Academy of Sciences USSR)

SUBMITTED:

March 30, 1960

Card 2/2